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FILED

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SECRETARY, BOARD OF OIL, GAS & MINING

BEFORE THE BOARD OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

UTAH CHAPTER OF THE SIERRA CLUB, SOUTHERN UTAH WILDERNESS ALLIANCE, NATURAL RESOURCES DEFENSE COUNCIL, and NATIONAL PARKS CONSERVATION ASSOCIATION,

Petitioners,

DIVISION OF OIL, GAS AND MINING,

Respondent,

ALTON COAL DEVELOPMENT, LLC

Intervenors,

DIVISION'S
HYDROLOGY/GEOLOGY
RESOURCES EXHIBITS FOR THE
APRIL HEARING

Docket No. 2009-019 Cause No. C/025/0005

The Division of Oil, Gas, and Mining (Division), by and through counsel hereby submits the following Hydrology/Geology Exhibits¹:

- 1. Final Technical Memorandum October 15, 2009
- 2. Chapter 6 Geology, Permit Application and referenced Maps
- 3. Chapter 7 Hydrology, Permit Application and referenced Maps
 - a. Hydrologic Monitoring Plan and referenced Maps
 - b. Probable Hydrologic Consequences section
 - c. Hydrologic Monitoring Plan and referenced Maps
 - d. Hydrologic Reclamation Plan and referenced Maps

¹ Exhibits 6 and 7 are maps that are not included.

- 4. Cumulative Hydrologic Impact Assessment October 15, 2009 with Referenced portions of the Coal Hollow Permit Application including Chapter 2 Soils, Chapter 6 Geology, Chapter 7 Hydrology
- 5. Portions of the hydrologic monitoring plans for current coal mining permits
 - i. Canyon Fuel Company, Dugout Mine
 - ii. Horse Canyon Mine, Lila Canyon Extension
 - iii. West Ridge Mine, Willow Creek Mine
- 6. USGS Water Resource Investigations Report 86-4017 1987 Price, D. and Plantz, G.G.
- 7. Price, D, 1980, Chemical Quality of Surface Water in the Alton-Kolob Coal Fields Area, Utah. USGS Miscellaneous Investigation Series Map I- 1235-A.
- 8. Utah Admin, Code Rule R317-2 Standards for Waters of the State
- 9. UPDES Permit No. UTG 040027
- 10. Draft Guidelines for Preparation of a Cumulative Hydrologic Impact Assessment (CHIA) 1985
- 11. Field Notes of Jim Smith, Priscilla Burton, Erik Peterson, and April Abate
- 12. SGS Labs revised lab data sheet for the Mar 22, 2008 measurement at station SW-6.
- 13. Tech Directive 004, Water Monitoring Guidelines for Coal Mines, effective June 27, 2008
- 14. Charles H. Norris, Geo-Hydro Inc., Resume provided at deposition.
- 15. Charles Norris, List of cases representing citizen groups provided at deposition.

Respectfully submitted this 27day of April, 2010

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